

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-119688  
 (43)Date of publication of application : 24.05.1988

(51)Int.CI.

```

C12P 13/14
C12N 1/20
C12N 15/00
C12P 13/24
// (C12P 13/14
  C12R 1:13 )
(C12P 13/14
  C12R 1:15 )
(C12P 13/24
  C12R 1:13 )
(C12P 13/24
  C12R 1:15 )

```

(21)Application number : 61-265297

(71)Applicant : KYOWA HAKKO KOGYO CO LTD

(22)Date of filing : 07.11.1986

(72)Inventor :  
 KATSUMATA RYOICHI  
 YOKOI HARUHIKO  
 KINO KUNIKI

**(54) PRODUCTION OF L-GLUTAMIC ACID AND L-PROLINE****(57)Abstract:**

**PURPOSE:** To produce L-glutamic acid and L-proline, by culturing a microorganism belonging to *Corynebacterium* genus or *Brevibacterium* genus and containing a specific recombinant DNA.

**CONSTITUTION:** A microorganism belonging to *Corynebacterium* genus or *Brevibacterium* genus and containing a recombinant DNA derived from a vector DNA and a DNA fragment carrying genetic information participating in the synthesis of citric acid synthase (CS) of microorganism is cultured in a medium. Concrete examples of the transformant strain having a recombinant DNA containing a CS gene are *Corynebacterium glutamicum* K70 (FERM BP-1161) produced by including a recombinant plasmid pEgltA-2 containing CS gene of *E.coli* in *Corynebacterium glutamicum* ATCC 31833 strain and *Corynebacterium glutamicum* K71 (FERM BP-1162) produced by including a recombinant plasmid pCgltA-1 containing CS gene of *Corynebacterium glutamicum* in *Corynebacterium glutamicum* ATCC 31833.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]